

SHEET 1 OF 4

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. UC088.1CPC1CPT	APPLICATION NO. 09/885,291
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Roger Y. Tsien et al.	
		FILING DATE May 24, 2001	GROUP 1845

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U.S. PATENT DOCUMENTS

TECH CENTER 1800/2900

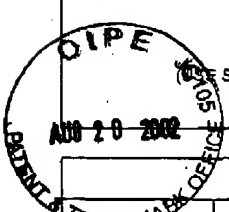
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
RBK	1.	4,314,936	02/09/1982	Yaron et al.			
	2.	5,264,583	11/23/1993	Huse			
	3.	5,491,084	02/13/1996	Chalfie et al.			
	4.	5,599,906	02/04/1997	Dasmahapatra			
	5.	5,602,021	02/11/1997	Davis et al.			
	6.	5,605,809	02/25/1997	Komoriya et al.			
	7.	5,614,191	03/25/1997	Puri et al.			
	8.	5,625,048	04/29/1997	Tsien et al.			
	9.	5,912,137	06/15/1999	Tsien et al.			
	10.	5,961,200	11/09/1999	Tsien et al.			
	11.	5,998,204	12/07/1999	Tsien et al.			
	12.	6,197,928	03/08/2001	Tsien et al.			
RBK	13.	6,248,550	06/19/2001	Tsien et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
RBK	14.	AU 717873	04/06/2000	Australia				
	15.	EP 0 877 805 B1	05/06/2002	Europe				
	16.	EP 0 429 000 A1	05/22/1991	Europe				
	17.	WO 91/01305	02/07/1991	PCT				
	18.	WO 94/28186	12/08/1994	PCT				
	19.	WO 94/28173	12/08/1994	PCT				
	20.	WO 95/07463	03/16/1995	PCT				
	21.	WO 95/21191	08/10/1995	PCT				
RBK	22.	WO 96/13807	05/09/1996	PCT				

EXAMINER <i>Richard B. Kapust</i>	DATE CONSIDERED <i>3/17/04</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

SHEET 2 OF 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UC089.1CPC1CP1	APPLICATION NO. 09/865,291
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		<div style="text-align: center;">  </div>	
SEVERAL SHEETS IF NECESSARY)		APPLICANT Roger Y. Telen et al.	SEP 03 2002
		FILING DATE May 24, 2001	GROUP 1645 TECH CENTER 1800/2900

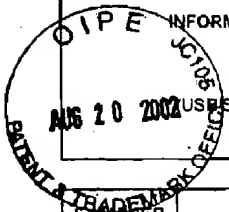
FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
RBY	23.	WO 96/23810	08/08/1996	PCT ✓				
	24.	WO 96/23898	08/08/1996	PCT ✓				
	25.	WO 96/27027	09/06/1996	PCT ✓				
	26.	WO 96/27675	09/12/1996	PCT ✓				
	27.	WO 97/11094	03/27/1997	PCT ✓				
	28.	WO 97/28281	08/07/1997	PCT ✗				
RBY	29.	WO 98/40477	09/17/1998	PCT ✓				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
RBY	30.	Baird <i>et al.</i> , "Circular Permutation and Receptor Insertion within Green Fluorescent Proteins" <i>Proc. Natl. Acad. Sci., USA</i> , 96:11241-11246, 1999
	31.	Blumenthal, in "Peptides and Protein Phosphorylation" (Kemp, ed; CRC Press 1990), pages 135-143
	32.	Chalfie <i>et al.</i> , "Green Fluorescent Protein as a Marker for Gene Expression," <i>Science</i> 263:802-805 (1994)
	33.	Cubitt <i>et al.</i> , "Understanding, Improving and Using Green Fluorescent Proteins," <i>Trends In Biochemical Sciences</i> 20:448-455 (1995)
	34.	Delagrave <i>et al.</i> , "Red-Shifted Excitation Mutants of the Green Fluorescent Protein," <i>Nature Biotechnology</i> 13(2):151-154 (1995)
	35.	Ehrig <i>et al.</i> , "Green-Fluorescent Protein Mutants with Altered Fluorescence Excitation Spectra" <i>FEBS Letters</i> 367:163-166 (1995)
	36.	Geoghegan <i>et al.</i> , "Site-Directed Double Fluorescent Tagging of Human Renin and Collagenase (MMP-1) Substrate Peptides Using the Periodate Oxidation of N-Terminal Serine. An Apparently General Strategy for Provision of Energy-Transfer Substrates for Proteases" <i>Bioconjugate Chemistry</i> 4(6):537-544 (1993)
	37.	Giuliano <i>et al.</i> , "Fluorescent Protein Biosensors: Measurement of Molecular Dynamics in Living Cells," <i>Annual Review of Biophysics and Biomolecular Structure</i> , 24:405 (1995)
	38.	Heim and Tsien, "Engineering Green Fluorescent Protein for Improved Brightness, Longer Wavelengths and Fluorescence Resonance Energy Transfer," <i>Current Biology</i> 6(2):178-182 (1996)
	39.	Heim <i>et al.</i> , "Wavelength Mutations and Posttranslational Autoxidation of Green Fluorescent Protein" <i>Proceedings of the National Academy of Sciences of USA</i> , 91:12501-12502 (1994)
	40.	Heim <i>et al.</i> , "Improved Green Fluorescence" <i>Nature</i> 373:663-664 (1995)
RBY	41.	Heim, "Green-Fluorescent Protein Forms for Energy Transfer" <i>Methods Enzymol.</i> , 302:408-423 (1999)

EXAMINER	Ramuel B. Kaput	DATE CONSIDERED	2/17/04
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			

SHEET 3 OF 4

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. UC088.1CPC1CP1	APPLICATION NO. 09/885,291
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		RECEIVED	
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USPTO SEVERAL SHEETS IF NECESSARY)		APPLICANT Roger Y. Telen et al.	GROUP 1645
FILING DATE May 24, 2001		TECH CENTER 1600/2900	



EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
RBF	42. Inouye and Tsuji, "Aequorea Green Fluorescent Protein: Expression of the gene and fluorescence characteristics of the recombinant protein," <i>FEBS Letters</i> 341:2(03):277-280 (March 21, 1994)
	43. Kain et al., "Green Fluorescent Protein as Reporter of Gene Expression and Protein Localization," <i>Biotechniques</i> 19(4):650-655 (1995)
	44. Kemp and Pearson, "Protein Kinase Recognition Sequence Motifs" <i>Trends Biochem. Sci.</i> , 15:342-346 (1990)
	45. Knight, "Fluorimetric Assays of Proteolytic Enzymes" <i>Methods in Enzymology</i> 248:18-34 (1995).
	46. Krafft et al., "Synthetic Approaches to Continuous Assays of Retroviral Proteases," <i>Methods Enzymol.</i> , 241:70-86 (1994)
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	49. Meredith et al., "Measurement of Kinase Activation in Single Mammalian Cells," <i>Nat. Biotechnol.</i> , 18(3):309-312 (2000)
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	51. Nagai et al., "A fluorescent indicator for visualizing cAMP-induced phosphorylation in vivo," <i>Nat. Biotechnol.</i> , 18(3):313-316 (2000)
	52. Pearson and Kemp, "Protein Kinase Phosphorylation Site Sequences and Consensus Specify Motifs: Tabulations" <i>Meth. Enzymol.</i> , 200:62-81 (1991)
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	56. Selvin, "Lanthanide-Based Resonance Energy Transfer" <i>IEEE J. Sel. Top. Quant. Electron</i> , 2:1077-1087 (1996)
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	58. Tsien et al., "FRET for Studying Intracellular Signalling," <i>Trends Cell Biol</i> , 3:242-245 (1993)
	59. Tsien, "The Green Fluorescent Protein" <i>Ann. Rev. Biochem</i> 67:509-544 (1998)
	60. Ward et al., "An Energy Transfer Protein in Coelenterate Bioluminescence" <i>Jour. Biol. Chem.</i> , 254(3):781-788 (1979)
	61. Wu and Brand, "Resonance Energy Transfer: Methods and Applications," <i>Analytical Biochemistry</i> 218:1-13 (1994)
RBF	62. Yaron et al., "Intramolecularly Quenched Fluorogenic Substrates for Hydrolytic Enzymes," <i>Analytical Biochemistry</i> , 95:228-235 (1979)

EXAMINER <i>Rachel B. Kapur</i>	DATE CONSIDERED * <i>3/17/04</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 608; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

SHEET 4 OF 4

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. UC089.1CPC1CP1	APPLICATION NO. 09/86281
	APPLICANT Roger Y. Tsien et al.	FILING DATE May 24, 2001
	GROUP 1645	

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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
RBK	63. Confidential (i.e., non-public) communication re. Sato <i>et al.</i> manuscript draft entitled "Fluorescent indicators for imaging protein phosphorylation in single living cells," received by Applicants about, but not before, January 18, 2001. The manuscript was subsequently published in <i>Nature Biotechnology</i> , 20:287-294 (March 2002).

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EXAMINER	<i>Rachel B. Kapur</i>	DATE CONSIDERED	<i>3/17/04</i>
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 809; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.			